



Pillar Preparation:

Priming your body to perform

Navy Operational Fitness & Fueling Series Athletes' Performance



Traditional Approach Training the "Core"





Pillar Strength

Redefining the "Core"

Pillar Strength



Q: What is the Pillar?

Shoulders
Torso
Hips



Pillar Strength



Q: Why is the Pillar so important?

- At the center of ALL MOVEMENT!
- Transfers energy through it
- Generates energy from it

If it lacks stability & mobility inefficient movement and energy leaks are the result!





Kinetic Linking Principals

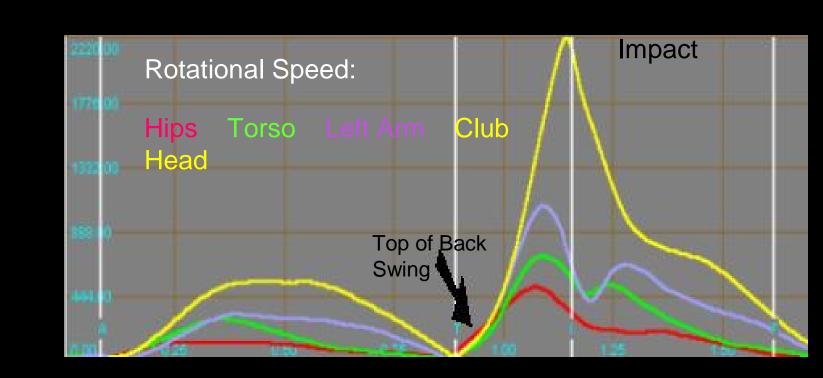
- 1.) Energy is transferred proximal to distal
- If this sequence is ignored and energy is created distal to proximal higher stress on body's segments
- 2.) Energy must be conserved in the system
- Efficient movement allows for the transfer of energy through or from the pillar
- Energy leaks cause...
 - Increased force on tissue or skeleton
 - Higher chance of injury!



Example: Golf Swing











Example: Multidirectional Movement (Good Kinetic Linking)





Example: Multidirectional Movement (Poor Kinetic Linking)





Energy Leak at the Hip



Cincinnati Children's Hospital Sports Medicine Biodynamics Center

www.cincinnatichildrens.org/sportsmed

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Energy Leak at the Torso





Energy Leak at the Shoulder



Operational Application



Pillar Strength is a critical training component for all Sailors to ensure...

- _Increased durability
- _Peak Performance is achieved

Q: How would energy leaks affect these Sailors?









Program Design



Q: Where does Pillar Strength fit in my session layout and why?

- Activate critical musculature
- Target isolated mobility limitations
- Focus on individual compensation
- Setting the foundation to build on during the session

Session Layout

Pillar Strength
Movement Prep
Strength
Cardiovascular Fitness
Recovery

Program Design



Q: Is my program balanced?



Hips

Torso

Shoulders

Pillar Strength Review



- _Pillar (hips/torso/shoulders)
- Foundation for all movement
- Poor Pillar = Compensations/Energy Leaks
- Strong Pillar = Efficient movement/kinetic linking
 - Decrease aches, pain, and injury
 - Increase performance



Thank You.